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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/920,728	08/03/2001	Robert James Tribe	0100/0131	5066
21395 7590 03/26/2007 LOUIS WOO LAW OFFICE OF LOUIS WOO 717 NORTH FAYETTE STREET ALEXANDRIA, VA 22314			EXAMINER	
			DESANTO, MATTHEW F	
			ART UNIT	PAPER NUMBER
ALLAMORI,			3763	
SHORTENED STATUTORY F	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONT	THS.	03/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
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Office Action Summary	09/920,728	TRIBE ET AL.				
· · · · · · · · · · · · · · · · · · ·	Examiner De Courte	Art Unit				
The MAILING DATE of this communication app	Matthew F. DeSanto	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Faiture to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time Till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status .		·				
 1) ⊠ Responsive to communication(s) filed on 06 Oc 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ace except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1.4,5 and 7-10 is/are pending in the all 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,4,5 and 7-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	vn from consideration.					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	·					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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Art Unit: 3763

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 5 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Ford (USPN 6,551,277).

Ford discloses a syringe pump having a drive mechanism 7, an occlusion detector including a force sensor that directly senses the force exerted on the plunger in response to an occlusion. Ford's pump is operable in response to a detected occlusion to reverse the drive applied to move the plunger along the barrel sufficiently until the force detected by the force sensor falls by a predetermined amount.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ford.

Ford discloses the invention substantially as claimed. Ford discloses that upon occlusion detection by the sensor, the pump rewinds by some predetermined amount following an occlusion alarm (incremental drive system rewind). However, Moberg fails to specifically disclose the pump being arranged to reverse the drive until force detected by the force sensor is substantially 10% of the force at which an occlusion is detected, and the force applied to drive the plunger is changed to reduce the detected force to substantially 10% of the predetermined value. This predetermined value is deemed matter of design choice, well within the skill of the ordinary artisan, obtained through routine experimentation in determining optimum results.

5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ford in view of Moberg (US 6,362,591).

Ford discloses the invention substantially as claimed except for the pump generating an alarm when force of the plunger exceeds a predetermined value when there is an occlusion.

Moberg teaches that it is known to have an alarm in syringe pumps when force of the plunger exceeds a predetermined value when there is an occlusion. Given the teachings, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Ford' syringe pump by including an alarm in its syringe pump for indicating occlusions due to exceeding predetermined values, since Moberg suggests that such modification would provide an audible indication to the user for occlusions.

Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew F. DeSanto whose telephone number is 571-

272-4957. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nick LUCCHESI can be reached on (571) 272-4977. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew DeSanto Art Unit 3763

March 19, 2007